

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L30-940-(L25)-DIM1-UNV-OW-OF-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20361.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 07/11/2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] GEN7 V18 LED 6" TALL HEATSINK 6" SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 6" SEMI-SPEC ALUMINUM TRIM w/FROST

[LUMCAT] 6DS-L30-940-(L25)-DIM1-UNV-OW-OF-CS

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2159
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	25.58
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10328	14934	9677
55	1319	2237	1319
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2553.631	2553.631	2553.631	2553.631	2553.631
5	2522.275	2522.275	2517.686	2517.686	2513.097
10	2385.378	2396.085	2394.555	2388.437	2376.200
15	2175.061	2178.120	2179.649	2169.707	2153.646
20	1879.852	1880.617	1868.380	1876.793	1851.555
25	1515.812	1519.636	1534.167	1493.633	1437.039
30	1009.522	1108.944	1183.894	1055.409	973.577
35	601.124	699.782	793.851	640.129	572.062
40	327.330	405.338	472.640	373.982	319.682
45	169.783	203.434	245.497	184.314	159.076
50	69.596	80.303	112.424	74.185	67.301
55	17.590	26.003	29.827	22.944	17.590
60	1.530	2.294	6.118	1.530	0.765
65	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	840.35	N.A.	38.90
0-30	1522.61	N.A.	70.50
0-40	1961.7	N.A.	90.90
0-60	2158.47	N.A.	100.00
0-80	2159.14	N.A.	100.00
0-90	2159.14	N.A.	100.00
10-90	1922.9	N.A.	89.10
20-40	1121.36	N.A.	51.90
20-50	1288.44	N.A.	59.70
40-70	197.44	N.A.	9.10
60-80	0.67	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2159.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	236.24
10-20	604.10
20-30	682.26
30-40	439.10
40-50	167.09
50-60	29.68
60-70	0.67
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	87	101	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	84	80	86	82	79	84	81	78	83	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	75	72	78	74	72	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	74	65	60	56	64	59	56	64	59	55	63	58	55	54
10	72	62	57	53	71	62	56	53	61	56	52	60	56	52	60	55	52	51

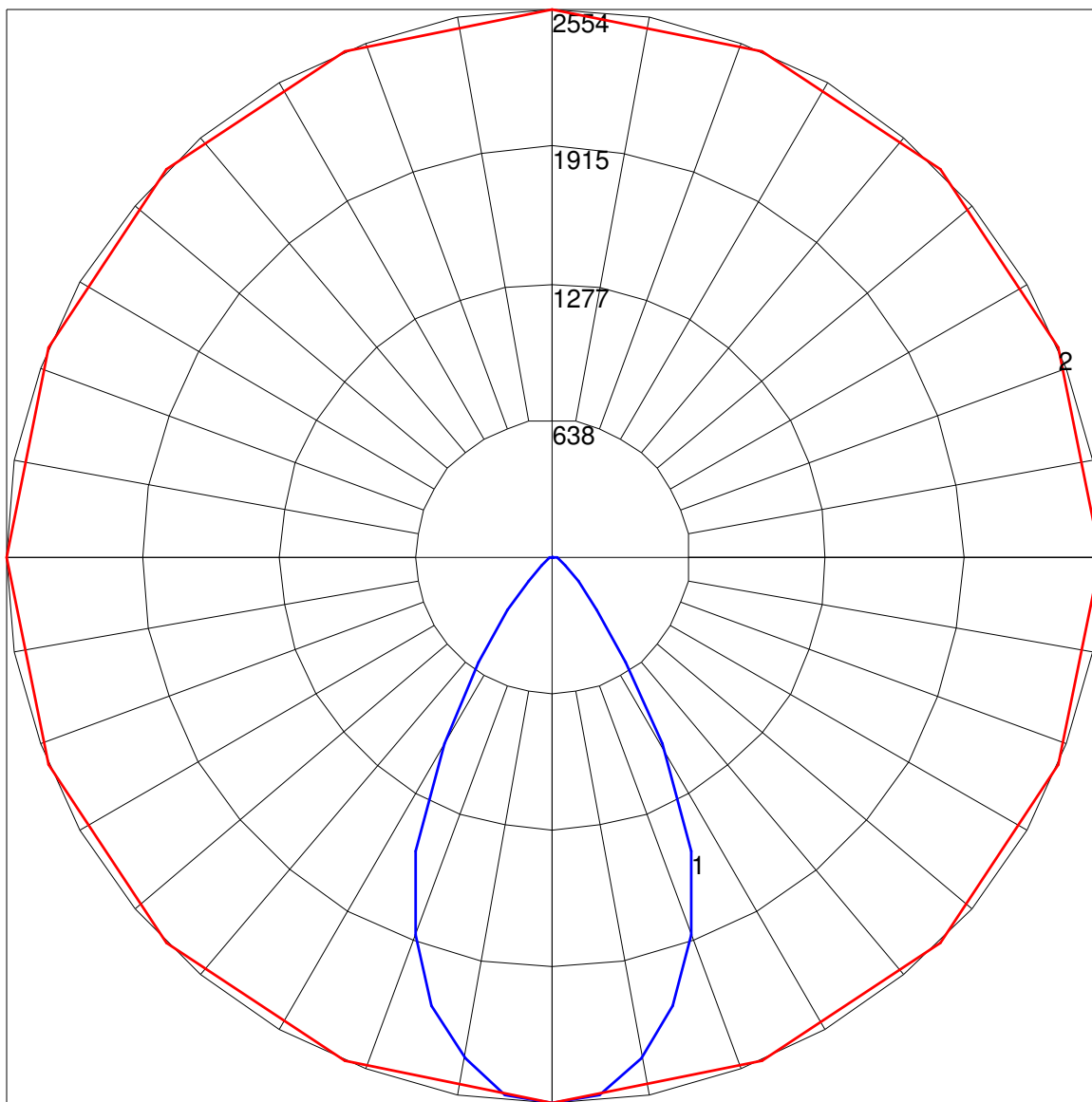
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	2.7	2.7	2.7	2.7	3.0	2.7	2.7	2.7	2.7	2.7
	3H	2.7	2.7	2.7	2.7	2.8	2.7	2.7	2.7	2.7	2.7
	4H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	6H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	8H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	12H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
4H	2H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	3H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	4H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	6H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	8H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	12H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
8H	4H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	6H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	8H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	12H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
12H	4H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	6H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	8H	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7

Maximum UGR = 3.0

POLAR GRAPH



Maximum Candela = 2553.631 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)